CLAIMS

Please amend the claims as follows and cancel claims 32-34 without prejudice.

 (Currently amended) A method facilitating the configuration of parameters controlling utilization of a network resource, comprising the steps of:

monitoring utilization of a network resource with respect to a plurality of utilization classes:

displaying the most significant utilization classes based on a network statistic; $[[\mathsf{and},]]$

facilitating association of a displayed utilization class with a network resource utilization control parameter operative to control utilization of the network resource, wherein facilitating association includes providing a user interface allowing for selection of a displayed utilization class and a desired network resource utilization control parameter; and

wherein displaying the most significant utilization classes are further based on a minimum threshold percentage of the network resource.

2. (Original) The method of claim 1 further comprising the step of:

facilitating selection of additional utilization classes not presented in the displaying step and association of control parameters to the additional utilization classes.

Claim 3 (Canceled)

2	10/027,499
	2

 (Original) The method of claim 2 wherein the facilitating step comprises the steps of

providing a user interface allowing for selection of a displayed utilization class and a desired control parameter; and

wherein the user interface allows for selection of additional utilization classes and configuration of desired allocations of the network resource for selected additional utilization classes.

- (Original) The method of claim 1 further comprising the step of upon selection by a user, associating a selected utilization class with control parameter selected by the user.
- (Original) The method of claim 1 wherein the displaying step further comprises
 providing a user interface that displays the most significant utilization classes
 based on a utilization statistic;

wherein the user interface allows for selection of a displayed utilization class and a desired control parameter.

 (Original) The method of claim 6 wherein the user interface further allows for selection of additional utilization classes not presented in the displaying step and configuration of desired control parameters for selected additional utilization classes.

- 8. (Original) The method of claim 1 wherein the most significant utilization classes are displayed in an order relative to corresponding values of the network statistic.
- (Original) The method of claim 1 wherein the most significant utilization classes are displayed in descending order relative to corresponding values of the network statistic.
- (Original) The method of claim 1 wherein the most significant utilization classes are displayed in ascending order relative to corresponding values of the network statistic.
- (Original) The method of claim 6 wherein the user interface displays the most significant utilization classes in an order relative to corresponding values of the network statistic.
- 12. (Original) The method of claim 6 wherein the user interface displays the most significant utilization classes in descending order relative to corresponding values of the network statistic.
- (Original) The method of claim 6 wherein the user interface displays the most significant utilization classes in ascending order relative to corresponding values of the network statistic.

14.	(Original) The method of claim 1 further comprising the steps of
	providing a set of selectable network statistics;
	receiving a selected utilization statistic from a user; and,
	wherein the displaying step comprises
	displaying the most significant utilization classes based on the selected network
statist	ic.
Claim	15 (Canceled)

- (Original) The method of claim 1 wherein the network statistic is a utilization statistic.
- 17. (Original) The method of claim 1 wherein the network statistic is computed over a given analysis interval; and wherein the method further comprises the steps of: allowing for selection of an analysis interval.
- 18. (Currently amended) A method facilitating the configuration of bandwidth management parameters, comprising the steps of:

monitoring bandwidth utilization with respect to a plurality of traffic classes;

displaying the most significant traffic classes based on a network statistic; [[and,]]

facilitating association of a displayed traffic class with a bandwidth utilization control parameter operative to control the bandwidth utilization, wherein facilitating association includes providing a user interface allowing for selection of a displayed bandwidth class and a desired bandwidth utilization control parameter; and

wherein displaying the most significant traffic classes are further based on a minimum threshold percentage of the bandwidth utilization.

19. (Original) The method of claim 18 further comprising the step of:

facilitating selection of additional traffic classes not presented in the displaying step and association of bandwidth utilization controls to the additional traffic classes.

- (Previously presented) The method of claim 18 wherein each bandwidth control category maps to a set of bandwidth utilization controls.
- 21. (Original) The method of claim 18 wherein the bandwidth utilization control is implemented by an aggregate data flow bandwidth utilization control.
- (Original) The method of claim 18 wherein the bandwidth utilization control is implemented by a per-flow bandwidth utilization control.

- 23. (Original) The method of claim 18 wherein the bandwidth utilization control is implemented by at least one aggregate data flow bandwidth utilization control and at least one per-flow bandwidth utilization control.
- 24. (Original) The method of claim 18 wherein the monitoring step further comprises the step of

automatically creating new traffic classes in response to data flows.

- 25. (Original) The method of claim 18 wherein the network statistic is computed over a given analysis interval; and wherein the method further comprises the steps of: allowing for selection of an analysis interval.
- 26. (Currently amended) An apparatus allowing for the management of bandwidth utilization across an access link, comprising:

a traffic discovery engine operative to identify traffic classes corresponding to data flows traversing an access link; wherein the traffic discovery engine is further operative to measure bandwidth utilization across the access link with respect to a plurality of traffic classes in relation to at least one bandwidth utilization statistic;

a bandwidth control mechanism operative to enforce bandwidth utilization controls on data flows associated with corresponding traffic classes; and

a user interface module operative to display the most significant traffic classes based on a bandwidth utilization statistic; and wherein the user interface module facilitates association of a bandwidth utilization control parameter to a selected traffic class wherein the bandwidth utilization control parameter is operative to control the

bandwidth utilization; and wherein display of the most significant traffic classes are
further based on a minimum threshold percentage of the bandwidth utilization.

- (Original) The apparatus of claim 26 wherein the bandwidth utilization statistic is selectable by a user.
- (Original) The apparatus of claim 26 wherein the bandwidth utilization statistic is computed over an analysis interval.
- 29. (Original) The apparatus of claim 28 wherein the analysis interval is selectable by a user.
- 30. (Original) The apparatus of claim 26 wherein the traffic discovery engine is further operative to create new traffic classes in response to data flows.
- 31. (Original) The apparatus of claim 26 wherein the user interface allows for the display of additional traffic classes.

Claims 32-34 (Canceled)

35. (Previously presented) The method of claim 1 wherein the facilitating step comprises the steps of

Attny Dkt. No.: 6533/53656 8	10/027,499
Attily Data No., 0333/33030 6	10/02/,139

providing a user interface allowing for selection of a displayed utilization class and a desired parameter.

- (Previously presented) The method of claim 35 wherein the network statistic is a utilization statistic.
- 37. (Previously presented) The method of claim 1 wherein the control parameter is one of a plurality of control parameters, and wherein the plurality of control parameters are hierarchically inter-related such that changing the control parameter of the displayed utilization class to a higher-ranked or a lower-ranked control parameter causes a corresponding increase or decrease of priority for the network resource.
- 38. (Previously presented) The method of claim 18 wherein the bandwidth utilization control is one of a plurality of bandwidth utilization controls, and wherein the plurality of bandwidth utilization controls are hierarchically inter-related such that changing the bandwidth utilization control of the displayed traffic class to a higher-ranked or a lower-ranked bandwidth utilization control causes a corresponding increase or decrease of priority for the bandwidth utilization.
- 39. (Previously presented) The apparatus of claim 26 wherein the bandwidth utilization control is one of a plurality of bandwidth utilization controls, and wherein the plurality of bandwidth utilization controls are hierarchically inter-related such that changing the bandwidth utilization control of the selected traffic class to a higher-ranked or a lower-ranked bandwidth utilization control causes a corresponding increase or decrease of priority for the bandwidth utilization.